

CLEAN VERSION OF AMENDED CLAIMS - OZ 50716

14. An assay system as claimed in claim 12 for identifying inhibitors of plant dihydroorotase, which comprises incubating the enzyme with a test substrate to be studied and, after a suitable reaction time, determining the enzymatic activity of the enzyme in comparison with the activity of the uninhibited enzyme.
16. A plant dihydroorotase inhibitor, identified using an assay system as claimed in claim 12.
17. An inhibitor identified as claimed in claim 15 for use as herbicide.
18. A method of eliminating undesired vegetation, which comprises treating the plant to be eliminated with a compound which specifically binds to, and inhibits the function of, a dihydroorotase encoded by a DNA sequence as claimed in claim 1 or a DNA sequence which has a homology of at least 40% with respect to SEQ ID NO:1 and which encodes a protein which has the biological activity of a dihydroorotase.